



PRESS RELEASE

Sierra QuadraTherm®, World's Most Accurate Thermal Mass Flow Meter, Introduces Upgrades and New Look

August 8, 2025— Monterey, California — [Sierra Instruments](https://www.sierrainstruments.com) announces the first upgrade to their revolutionary QuadraTherm® 640i / 780i thermal mass flow meters. In response to customers' growing requirements, it now features a more user-friendly interface and an electronics upgrade that enhances its ability to deliver more precise flow measurement data. The new QuadraTherm is available today through Sierra's website at <https://www.sierrainstruments.com/products/quadratherm.html>.

With the new enhancements on QuadraTherm includes Modbus digital communications on both AC- and DC-powered products, upgraded USB connectivity, and a user-friendly interface with LEDs featuring green/red buttons. "We get great feedback from our customers. Our engineering team turned this around and implemented the upgrades. I'm excited about building on this with more upgrades going forward," states Greg Smith, Product Manager.

[QuadraTherm](#) delivers the world's most accurate thermal mass flow measurements, with an accuracy of +/- 0.5% reading above 50% of full scale for air and other gases. Accuracy is as good as, if not better than, Coriolis at a fraction of the price. It offers built-in flow conditioning (inline version), high turndown to handle low to high flows during upset conditions, multivariable outputs, and flow ranges up to 60,000 sfpm (305 smps).

The meter also features qTherm®, Dial-A-Gas®, Dial-A-Pipe , and onboard qMix gas mixing software, enabling custom gas mixtures in the field without requiring costly recalibration. It is ideal for managing changes in flare gas composition in upstream oil & gas applications and other scenarios where gas composition frequently changes.

The QuadraTherm delivers direct measurement of gas flow, unlike differential pressure (dP) meters, which require additional calculations to convert volumetric flow to mass flow —the measurement most often needed. Direct measurement enables the meter to provide low-end sensitivity for detecting flares, venting, and leaks. It also measures extremely high flows during upset conditions.

QuadraTherm Advantages

- Highest Accuracy: +/-0.5% of reading (inline) +/-0.75% of reading (insertion)
- Patented no-drift DrySense sensor with a Lifetime Warranty
- Create new gas or gas mix with qMix
- Field Configurable: Pipe size, calibrated full scale, gas, units of measure
- Measures extremely low flows with high flows up to 60,000 sfpm (305 smps)
- Fast delivery (expedites available)

NORTH AMERICA
20 Ryan Ranch Road, Suite 109 / Monterey, CA 93940
800.866.0200 / 831.373.0200
www.sierrainstruments.com

EMEA
Bijlmansweid 2
1934RE Egmond aan den Hoef
The Netherlands
+31 72 5071400

ASIA-PACIFIC
Second Floor Building 5, Senpu Industrial Park
25 Hangdu Road Hangtoun Town
Pu Dong New District
Shanghai, P.R. China 200122
+8621 5879 8521/22



QuadraTherm is built in Monterey, California. Learn more about QuadraTherm today. Visit <https://www.sierrainstruments.com/products/quadratherm.html>.

Sierra. Measurably Different.™

Global headquarters: Monterey, California. For over 50 years, Sierra has been a global pioneer in the design and manufacturing of precise flow measurement instruments you can trust. We produce accurate and reliable solutions that control industrial processes, regulate emissions for oil and gas operations, convert waste to energy, create silicon chips that enable advanced technology, and deliver life-saving medicine. 150 locations in over 50 countries provide innovative flow measurement products and services where and when needed.

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